

Solve Equations With Like Terms



Like terms are terms that have the same variables raised to the same powers. You can combine the like terms on each side of an equation to help solve the equation.

Let's try it! Solve $7t + 3t - 4t = 24$.

First, find the like terms. $7t$, $3t$, and $-4t$ are like terms.

$$7t + 3t - 4t = 24$$

Next, combine the like terms. Pay attention to the signs.

$$6t = 24$$

Then, solve using inverse operations.

$$\frac{6t}{6} = \frac{24}{6}$$

$$t = 4$$

Practice! Solve each equation.

1 $3b + 6b = 45$ $b = 5$	2 $4y - 10y = 42$ $y = -7$
3 $-8r + 10r = 20$ $r = 10$	4 $15d - 11d = -28$ $d = -7$
5 $7a + 6a - a = 48$ $a = 4$	6 $2w - 9w + 10w = -27$ $w = -9$
7 $5m - 14m + 2m = 35$ $m = -5$	8 $6p - 13p - 10p + 2p = -45$ $p = 3$
9 $-4c - c - 8c + 3c = -80$ $c = 8$	10 $29g - 5g - 11g - 20g = 63$ $g = -9$